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PCT/KR2004/001509

PATENT COOPERATION TREATY

PCT

REC'D 21 MAR 2006
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P03EB007PCT	FOR FURTHER ACTION	See Form PCT/IPEA/416
International application No. **PCT/KR2004/001509**	International filing date *(day/month/year)* **22 JUNE 2004 (22.06.2004)**	Priority date *(day/month/year)* 25 NOVEMBER 2003 (25.11.2003)

International Patent Classification (IPC) or national classification and IPC

G01R 29/08(2006.01)i

Applicant

Electronics and Telecommunications Research Institute et al

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 3 sheets, including this cover sheet.

3. This report is also accompanied by ANNEXES, comprising:
   a. ☐ (sent to the applicant and to the International Bureau) a total of _____ sheets, as follows:
      ☐ sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).
      ☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.
   b. ☐ *(sent to the International Bureau only)* a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box relating to Sequence Listing (see Section 802 of the Administrative Instructions).

4. This report contains indications relating to the following items:
   - ☒ Box No. I Basis of the report
   - ☐ Box No. II Priority
   - ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
   - ☐ Box No. IV Lack of unity of invention
   - ☒ Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
   - ☐ Box No. VI Certain documents cited
   - ☐ Box No. VII Certain defects in the international application
   - ☐ Box No. VIII Certain observations on the international application

Date of submission of the demamd	Date of completion of this report
19 APRIL 2005 (19.04.2005)	27 FEBRUARY 2006 (27.02.2006)
Name and mailing address of the IPEA/KR Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140	Authorized officer SEO, Hawthorne Telephone No. 82-42-481-5670

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/KR2004/001509

Box No. I Basis of the report

1. With regard to the **language**, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

   ☒ This report is based on translations from the original language into the following language English, which is the language of a translation furnished for the purposes of:

   - ☐ international search (under Rules 12.3 and 23.1(b))
   - ☒ publication of the international application (under Rule 12.4)
   - ☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the **elements** of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this reort as "originally filed" and are not annexed to this report):*

   ☒ the international application as originally filed/furnished

   ☐ the description:
   pages _____ as originally filed/furnished
   pages* _____ received by this Authority on _____
   pages* _____ received by this Authority on _____

   ☐ the claims:
   pages _____ as originally filed/furnished
   pages* _____ as amended (together with any statment) under Article 19
   pages* _____ received by this Authority on _____
   pages* _____ received by this Authority on _____

   ☐ the drawings:
   pages _____ as originally filed/furnished
   pages* _____ received by this Authority on _____
   pages* _____ received by this Authority on _____

   ☐ the sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:
   - ☐ the description, pages _____
   - ☐ the claims, Nos. _____
   - ☐ the drawings, sheets _____
   - ☐ the sequence listing *(specify)* : _____
   - ☐ any table(s) related to sequence listing *(specify)* : _____

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered ~~to go beyond the disclosure~~ as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
   - ☐ the description, pages _____
   - ☐ the claims, Nos. _____
   - ☐ the drawings, sheets _____
   - ☐ the sequence listing *(specify)*: _____
   - ☐ any table(s) related to sequence listing *(specify)* : _____

* *If item 4 applies, some or all of those sheets may be marked "superseded."*

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/KR2004/001509

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-9	YES
	Claims	none	NO
Inventive step (IS)	Claims	1-9	YES
	Claims	none	NO
Industrial applicability (IA)	Claims	1-9	YES
	Claims	none	NO

2. Citations and explanations (Rule 70.7)

The following documents are refered to;

D1 JP 2003-57281
D2 KR 2003-0002957
D3 US 6,181,285B1
D4 US 5,237,283 A

D1 discloses a system and method of measuring radiation electromagnetic waves, to ensure a long distance between a sample under test and an electromagnetic wave measuring antenna for measuring electromagnetic waves, radiated from the sample in a anechoic chamber. The ratio anechoic chamber reflects electromagnetic waves radiated from a sample under test up from an installation area of the sample toward measuring positions on the floor surface, according to the radiating direction of the waves.

D2 discloses a method for testing the local SAR(Specific Absorption Rate) of a human body exposed to an electromagnetic field, wherein a specific node consisting an FDTD(Finite-Difference Time-Domain) cell is obtained. The values of the node, a local tissue mass, and a total of the local SARs are set as the initial values. Thereafter, the node mass of the FDTD cell is obtained.

D3 discloses a positioning equipment for antenna radiation pattern measurements with a piston rod particularly for shock absorbers and spring devices.

D4 discloses a device for measuring electromagnetic interference, which is of the type comprising a closed test cell the periphery of which is defined by an outer conductor of a TEM waveguide constituted by a tubular casing.

The application also discloses a method for measuring electromagnetic radiation pattern and gain however, claims 1 to 9 feature a step measuring DUT for 18 arrangements and the second step to estimate power density from the measured data, and those teachings are not disclosed in D1-D4.

Therefor the subject matter of present claims 1 to 9 differ from the prior arts, and this teaching is not rendered obviously from the prior arts.
Thus the novelty of the subject matter claimed can be acknowledged, and also the subject matter of the claim 1 to 31 appears to involve an inventive step in the sense of ART 33(3)PCT as well.
The industrial applicability of said subject-matters is self-evident.